Format No: CP/TS/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-12-07-16 **Date:** 12/11/2019
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at NMH Layout 5th Cross in Bagalagunte Ward No.14.
Agency	:	Sri.K.S Ramesh, #127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bangalore-73.
Customer's Reference	:	EE/DD/WO/403/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test	:	12/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	05/11/2019	12/11/2019	150.21 X 150.10 X 151.23	22546	8.784	410.3	18.2	18.6
2	Drain Side Wall Concrete	M20	05/11/2019	12/11/2019	151.46 X 149.76 X 149.54	22682	8.106	423.7	18.7	
3	Drain Side Wall Concrete	M20	05/11/2019	12/11/2019	150.79 X 149.78 X 151.13	22585	8.340	424.5	18.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date. BANGALORE

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2019

Lab ID	:	CP-2019-12-07-16
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at NMH Layout 5th Cross in Bagalagunte Ward No.14.
Agency	:	Sri.K.S Ramesh, #127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bangalore-73.
Customer's Reference	:	EE/DD/WO/403/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	05/11/2019	03/12/2019	151.15 X 151.56 X 151.41	22908	8.305	540.2	23.6	23.4
2	Drain Side Wall Concrete	M20	05/11/2019	03/12/2019	150.11 X 151.27 X 151.50	22707	8.060	518.7	22.8	
3	Drain Side Wall Concrete	M20	05/11/2019	03/12/2019	149.71 X 149.73 X 151.01	22416	8.602	530.8	23.7	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2019-12-07-16** **Date: 09-11-19**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at NMH Layout 5th Cross in Bagalagunte Ward No.14.
Agency	:	Sri.K.S Ramesh, #127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bangalore-73.
Customer Reference	:	EE/DD/WO/403/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-19
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-11-19
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2019-12-07-16 **Date: 09-11-19**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Road at NMH Layout 5th Cross in Bagalagunte Ward No.14.

Agency : Sri.K.S Ramesh, #127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bangalore-73.

Customer Reference : EE/DD/WO/403/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-19

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 07-11-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 09-11-19

Lab ID	:	CP-RW-2019-12-07-16
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at NMH Layout 5th Cross in Bagalagunte Ward No.14.
Agency	:	Sri.K.S Ramesh, #127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bangalore-73.
Customer Reference	:	EE/DD/WO/403/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-19
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	07-11-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ,
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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